CLAIMS

1. A ceramic heater comprising a ceramic substrate and a heating element disposed either on the surface or internally of the substrate,

wherein the work-heating surface has a JIS B 0601 surface roughness of Rmax = 0.05 to 200 μm.

2. A ceramic heater comprising a ceramic substrate and a heating element disposed either on the surface or internally of the substrate,

wherein said ceramic substrate contains an element other than its dominant constituent elements and the work-heating surface of the heater has a JIS B 0601 surface roughness of Rmax = 0.2 to 200 μm.

3. The ceramic heater according to Claim 1 or 2 wherein said ceramic substrate is at least one member selected from among a nitride ceramic, a carbide ceramic and an oxide ceramic.

4. A ceramic heater comprising a nitride ceramic substrate and a heating element either on the surface or internally of said substrate,

wherein said nitride ceramic substrate contains an element other than its principal constituent elements and the work-heating surface of the heater has a JIS B 0601 surface roughness of Rmax = 0.2 to 200 μm.

5. A ceramic heater comprising a nitride ceramic substrate and a heating element either on the surface or internally of said substrate

wherein said nitride ceramic board contains at least one element selected from Na, B, Y, Li, Rb and Ca and a work-heating surface has a JIS B 0601 roughness value of Rmax = 0.2 to 200

μm. SUB A2

6. The ceramic heater according to Claim 4 or 5 wherein said nitride ceramic board has the form of a disk having a diameter of more than 150 mm.

7. The ceramic heater according to Claim 4, 5 or 6 wherein the content of at least one element selected from the group consisting of Y, Li, Rb and Ca is not less than 0.1 weight %.

8. The ceramic heater according to Claim 4, 5 or 6 wherein the content of at least one element selected from the group consisting of Na and B is not less than 0.05 ppm.

ADD A3

Add B'